

**ATTACHMENT 3**  
**MATERIAL DESCRIPTION CODES (Page 1 of 15)**

**LOW-GRADE RESIDUES**

001 DISCARD PROCESS RESIDUES, TRAILER CAKES, WASTE SLURRIES, RAFFINATES, ETC.

*Gas/Vent*

002 SUMP CAKE - COPPER CONTAMINATED, LOW URANIUM

003 NON-RECOVERABLE TRASH AND PROCESS AREA SCRAP- FOR STORAGE OR  
SHIPMENT FOR OFFSITE BURIAL (see page 9) *Gas/Vent*

004 PROCESS AREA SCRAP WITH CONTAMINATED STEEL, CRUSHED DRUMS,  
EQUIPMENT, AND SIMILAR MATERIALS

005 CONTAMINATED ZIRCONIUM

006 CONTAMINATED LEATHER GLOVES FOR LAUNDRY

007 TRAILER CAKES, WASTE SLURRIES, RAFFINATES NOT MEETING DISCARD  
SPECIFICATION *Gas/Vent*

008 GRIT BLAST RESIDUE *Gas/Vent*

009 CONTAMINATED OIL - SOLUBLE; COOLANT *Gas/Vent*

010 CONTAMINATED WATER, CONTAINING CHLORIDES *Gas/Vent*

011 CONTAMINATED SOIL, ROCKS, SAND, BRICKS AND CERAMICS *Gas/Vent*

012 CONTAMINATED WATER OR SUMP LIQUOR, NON-CHLORIDE *Gas/Vent*

013 CONTAMINATED SOLVENT OR ORGANIC CHEMICAL - STENCIL TYPE OF CHEMICAL OR  
SOLVENT ON CONTAINER (SEE LIST OF SOLVENT /CHEMICAL NAMES ON PAGE 12)

014 GLASS AND SAMPLE BOTTLES

015 CONTAMINATED OIL, INSOLUBLE

016 CONTAMINATED COPPER - FOR DISCARD

017 CONTAMINATED GRAPHITE - BROKEN INTO LARGE PIECES *Gas/Vent*

018 CONTAMINATED ALUMINA-SODA LIME (HIGH Cl)

019 CONTAMINATED MAGNESIUM *Gas/Vent*

020 CONTAMINATED MERCO-DRI AND HILCO CAKE

021 DRUM DECONTAMINATION RESIDUES; WET  $MgF_2$  *Gas/Vent*

022 CONTAMINATED TBP AND/OR KEROSENE MIXTURES AND SLUDGES

023 OILY  $MgF_2$  *Gas/Vent*

**ATTACHMENT 3**  
**MATERIAL DESCRIPTION CODES (Page 2 of 15)**

LOW-GRADE RESIDUES (Continued)

- 024 CONTAMINATED GRAPHITE - CRUSHED
- 025 CONTAMINATED METALLIC FILTER ELEMENTS
- 026 CONTAMINATED CARBON FILTER ELEMENTS
- 027 CONTAMINATED RAGS, PAPER AND POLYETHYLENE
- 028 CONTAMINATED ASBESTOS MATERIALS
- 029 DUST COLLECTOR BAGS
- 030 MAGNESIUM OXIDE AND MAGNESIUM ZIRCONATE FROM CRUCIBLE CLEANOUT
- 031 ROASTED  $MgF_2$  (BLENDED WITH OTHER MATERIALS)
- 032 INCINERATOR ASHES - MATERIAL PASSING THROUGH GRATE OR SCREEN
- 033 INCINERATOR CINDERS - MATERIAL NOT PASSING THROUGH GRATE OR SCREEN
- 034  $MgF_2$  FOR MILLING OR DISCARD *Gas/Vent*
- 035  $MgF_2$  OR  $CaF_2$ , GOOD LINER MATERIAL *Gas/Vent*
- 036  $MgF_2$ , -20 MESH, HIGH FREE METAL FOR PLANT 8 ROASTING (ENRICHED ONLY)  
*Gas/Vent*
- 037  $MgF_2$ , GROUND *Gas/Vent*
- 038  $MgF_2$ , + 20 MESH, LOW U CONTENT, TO BE CRUSHED *Gas/Vent*
- 039 SLUDGES, OILY *Gas/Vent*
- 040 SLUDGES, FOR BLENDING AND SCREENING *Gas/Vent*
- 041 SLUDGES, OILY, FOR OXIDATION, HIGH FREE METAL *Gas/Vent*
- 042 SLUDGES, CLEANOUT, NON-OILY, FOR ROASTING *Gas/Vent*
- 043 SLUDGES, SOLVENT - STENCIL TYPE OF SOLVENT ON CONTAINER (SEE LIST OF  
SOLVENT AND ORGANIC CHEMICAL NAMES ON PAGE 12)
- 044 SLUDGES, SALT, SOFT, CHLORIDE (FOR PLANT 8 RECOVERY)
- 045 SLUDGES, SALT, SOFT, NON-CHLORIDE
- 046 SLUDGES, NON-OILY, FOR OXIDATION INCLUDING HIGH OR LOW FREE METAL  
*Gas/Vent*
- 047 SAMPLES, NON-METALLIC, MISCELLANEOUS
- 048 OIL BURNER ASH

**ATTACHMENT 3**  
**MATERIAL DESCRIPTION CODES (Page 3 of 15)**

LOW-GRADE RESIDUES (Continued)

- 049 LEAD AND LEAD-CONTAMINATED MATERIALS
- 050 PCB MATERIALS, BALLAST, PCB-CONTAMINATED RAGS
- 051 MERCURY-CONTAMINATED MATERIALS, BATTERIES
- 052 BARIUM-CONTAMINATED MATERIALS
- 053 NON-BURNABLE METAL WITH URANIUM CONTENT
- 054 HIGH LEVEL CLEANING RESIDUES
- 055 DEPLETED U METAL - NOT SUITABLE FOR REACTOR PRODUCT STREAMS (NOT TOP CROPS) *Gas/Vent*
- 056 DEPLETED U INGOT CROPS (TOP CROPS) FROM PRIMARY INGOTS *Gas/Vent*
- 057 WET CHRUSHED SLAG FROM FURNANCE POT BLOW-OUTS *Gas/Vent*
- 058 CONTAMINATED  $\text{CaF}_2$  -  $\text{MgO}$
- 059 ASH FROM BURNING DUST COLLECTOR BAGS
- 060 FURNACE SALT, SOLIDIFIED, CHLORIDE (FOR PLANT 8 RECOVERY)
- 061 FURNACE SALT, SOLIDIFIED, NON-CHLORIDE
- 062 DUST COLLECTOR RESIDUES - HIGH FLUORIDE
- 063 KOH REVERSION CAKE
- 064 DUST COLLECTOR RESIDUES, HIGH FLUORIDE *Pyrophoric and Gas/Vent*
- 065 SCRAP SALTS, HIGH FLUORIDE, INCLUDING FLOOR SWEEPINGS
- 066 SCRAP SALTS, LOW FLUORIDE, INCLUDING FLOOR SWEEPINGS
- 067 WET SUMP OR FILTER CAKE, HALIDE CONTAMINATED
- 068 WET SUMP OR FILTER CAKE, OIL CONTAMINATED
- 069 WET SUMP OR FILTER CAKE, NON-OILY AND NON-HALIDE
- 070 ROCKWELL SPILLS *Gas/Vent*
- 071, ROCKWELL CLEANINGS *Gas/Vent*
- 072 U OR Th NITRATE SOLUTIONS, HIGH IMPURITY SUCH AS ZIRNLO DECOPPERING SOLUTIONS- FOR REFINERY PROCESSING

ATTACHMENT 3  
MATERIAL DESCRIPTION CODES (Page 4 of 15)

LOW-GRADE RESIDUES (Continued)

- 073 U OR Th CHLORIDE OR FLUORIDE SOLUTIONS, HIGH IMPURITY - SUCH AS PLANT 8  
METAL DISSOLVER PRODUCT - NOT FOR REFINERY FEED
- 074 U OR Th SULFATE SOLUTIONS
- 075 CLAD METAL FOR HNO<sub>3</sub> DISSOLVER *Gas/Vent*
- 076 ZIRNLO ENDS - TO BE CLASSIFIED FOR RECOVERY *Gas/Vent*
- 077 DRY CRUSHED SLAG FROM FURNACE POT BLOW-OUTS *Gas/Vent*
- 078 OFF-SPEC Th OXALATE, FRENCH SOURCE
- 079 UNFIRED REDUCTION CHARGES PLUS MgF<sub>2</sub> FROM LINER CAVE-INS *Gas/Vent*
- 080 PARTIALLY OXIDIZED METAL FOR SORTING CONTAINING METL-X *Gas/Vent*
- 081 PARTIALLY OXIDIZED METAL FOR SORTING CONTAINING NO METL-X *Gas/Vent*
- 082 OFF-SPEC UF<sub>4</sub> OR ThF<sub>4</sub>
- 083 U OR Th CHLORIDE SALTS, REJECT
- 084 BAD REDUCTION (NO DERBY) *Gas/Vent*
- 085 U<sub>3</sub>O<sub>8</sub> - ROTEXED - OTHER THAN PLANT 8'S OWN PRODUCT
- 086 U<sub>3</sub>O<sub>8</sub> ROTEXED - PLANT 8'S OWN PRODUCT NOT MEETING REFINERY  
SPECIFICATIONS FOR CONTINUOUS DIGESTION
- 087 ROASTED SUMP CAKE - HIGH FLUORIDE - FOR MILLING
- 088 UNROASTED BUT MILLED MgF<sub>2</sub> (BLENDED WITH OTHER MATERIALS)
- 089 U<sub>3</sub>O<sub>8</sub> ROTEXED - FROM CONCRETED CHIPS - CALCIUM
- 090 CO-PACKAGED THORIUM MATERIALS. FOR MATERIAL TYPE CODES OF INNER  
CONTAINERS SEE OVERPACK/REPACK REPORT FROM SWIFTS OR SEE MC&A FOR  
FURTHER INFORMATION.
- 091 MAGNESIUM DIURANATE
- 092 FILTERED SEWAGE - *Potential Bio-Hazard*
- 093 BIRD CARCASSES, DROPPINGS, AND CONTAMINATED MATERIALS - *Potential Bio-  
Hazard*

**ATTACHMENT 3**  
**MATERIAL DESCRIPTION CODES (Page 5 of 15)**

**LOW-GRADE RESIDUES (Continued)**

- 094 COPACKAGED WASTE URANIUM RESIDUES. FOR MATERIAL TYPE CODES OF INNER CONTAINERS SEE OVERPACK/REPACK REPORT FROM SWIFTS OR SEE MC&A FOR FURTHER INFORMATION.
- 095 COLD METAL OXIDES - NON RADIUM-BEARING
- 096 AUSTRALIAN RADIUM CAKE
- 097 RADIUM-BEARING MATERIALS - SAMPLES, K-65, INCLUDING "Q-11" CONTAMINATED MATERIALS
- 098 MATERIAL HELD FOR HISTORICAL PURPOSES *Gas/Vent*
- 099 CHIPPED FLOOR SEALANT AND CONTAMINATED MATERIALS

**ATTACHMENT 3**  
**MATERIAL DESCRIPTION CODES (Page 6 of 15)**

**HIGH-GRADE RESIDUES**

- 100 SCRAP  $U_3O_8$  OR  $ThO_2$ , LOW FLUORIDE
- 101 SCRAP  $U_3O_8$  OR  $ThO_2$ , HIGH FLUORIDE
- 102 SCRAP  $UO_2$
- 103 INGOT CROPS (TOP CROPS) FROM PRIMARY INGOTS *Gas/Vent*
- 104 METAL SPILLS AND EXTRUSION ENDS; METAL HIGH IN IMPURITIES AND SPILLS  
*Gas/Vent*
- 105  $ThO_2$  PRODUCED FROM UNPURIFIED HANFORD THORIUM NITRATE VIA THORIA GEL  
PROCESS
- 106 CHIPS EMBEDDED IN CONCRETE - HIGH CALCIUM
- 107 CHIPS AND TURNINGS CONTAMINATED WITH NON-U MATERIALS - FOR OXIDATION  
*Gas/Vent*
- 108 WET PHOSPHATE CAKE
- 109 SAWDUST FOR OXIDATION *Pyrophoric and Gas/Vent*
- 110 NON-BRIQUETTABLE CHIPS AND TURNINGS FOR OXIDATION *Pyrophoric and Gas/Vent*
- 111 BRIQUETTABLE CHIPS AND TURNINGS FROM STANDARD METAL *Pyrophoric and  
Gas/Vent*
- 112 BRIQUETTABLE CHIPS AND TURNINGS, HIGH IMPURITIES, FOR BRIQUETTING AND  
DOUBLE MELTING *Pyrophoric and Gas/Vent*
- 113 ZIRCONIUM CLAD METAL, FROM OFFSITE, TO BE DECLAD BY ZIRNLO SYSTEM  
*Gas/Vent*
- 114 ZIRNLO FEED, CLASSIFIED AND SAWED *Gas/Vent*
- 115 WET THORIUM OXALATE CAKE
- 116 WET THORIUM HYDROXIDE
- 117 WET AMMONIUM DIURANATE CAKE
- 118 HOLLOW CORES WITH BROKEN DRILLS - ALL TYPES - BITS TO BE REMOVED AND  
CORES PICKLED PRIOR TO REMELT *Gas/Vent*
- 119 SOLID METAL, OTHER THAN CORES, WITH EMBEDDED STEEL *Gas/Vent*

**ATTACHMENT 3**  
**MATERIAL DESCRIPTION CODES (Page 7 of 15)**

HIGH-GRADE RESIDUES (Continued)

- 120 CHEMICAL REJECT PRIMARY INGOTS *Gas/Vent*
- 121  $U_3O_8$ , + 8 MESH - HIGH FLUORIDE
- 122  $U_3O_8$ , + 8 MESH - LOW FLUORIDE
- 123 CALCIUM URANATE
- 124 ZIRNLO; PARTIALLY DECLAD FUEL ELEMENTS *Gas/Vent*
- 125 UNRECYCLED SLAG + 20 MESH, BALL MILL PRODUCT *Gas/Vent*
- 126 OXIDES MIXED WITH ZIRCONIUM BUT CLAD WITH OTHER ELEMENTS
- 128 CLAD URANIUM METAL; DECLAD BY MACHINING OR CHEMICAL TREATMENT  
*Gas/Vent*
- 129 DIRTY PRILL, CODE 5 DERBIES, AND PLANT 1 TITAN MILL CLEAN-OUT, HIGH U  
CONTENT *Gas/Vent*
- 130 PARTIALLY OXIDIZED METAL FOR DISSOLVER *Gas/Vent*
- 131 PARTIALLY OXIDIZED METAL OXIDATION FEED *Gas/Vent*
- 132 DUST COLLECTOR RESIDUES, LOW FLUORIDE
- 133 OXIDES CLAD OR MIXED WITH ALUMINUM
- 134  $U_3O_8$  FOR REOXIDATION *Gas/Vent*
- 135 DUST COLLECTOR RESIDUE, HIGH FLUORIDE, GREATER THAN 20% ASSAY *Gas/Vent*
- 136 METAL TO BE OXIDIZED *Gas/Vent*
- 137 MISCELLANEOUS MATERIAL - RECOVERY METHOD TO BE DETERMINED (NOT FOR  
USE BY INDIVIDUAL PLANTS) *Gas/Vent*
- 138 OXIDES CLAD OR MIXED WITH ANY METALLIC ELEMENT OTHER THAN ALUMINUM,  
ZIRCONIUM OR STAINLESS STEEL
- 139 URANIUM ALLOYED OR CANNED WITH ELEMENTS OTHER THAN ALUMINUM,  
MOLYBDENUM OR ZIRCONIUM *Gas/Vent*
- 140 OXIDES CLAD OR MIXED WITH ZIRCONIUM
- 141 CLAD METAL FOR ACID DISSOLUTION - NOT FOR ZIRNLO PROCESSING *Gas/Vent*

**ATTACHMENT 3**  
**MATERIAL DESCRIPTION CODES (Page 8 of 15)**

HIGH-GRADE RESIDUES (Continued)

- 143 ROASTED CALCIUM-PRECIPITATED SUMP AND FILTER CAKES
- 144 OFFSITE SUMP AND FILTER CAKES AFTER ROASTING AT FEMP
- 145 ROASTED AMMONIUM-PRECIPITATED SUMP AND FILTER CAKES
- 146 ROASTED MAGNESIUM-PRECIPITATED SUMP AND FILTER CAKES
- 147 ROASTED, MILLED AND/OR SCREENED ADU CAKE FOR SLAG LEACH DIGESTION
- 148 ROASTED, MILLED AND/OR SCREENED ADU CAKE FOR CONTINUOUS DIGESTION

REFINERY FEEDS

- 150 URANYL OR THORIUM NITRATE SOLUTION
- 151 OFF-SPEC  $\text{ThO}_2$ , FRENCH SOURCE
- 152 OXIDES SUITABLE FOR CASCADE FEED
- 153 -8 MESH PRODUCT FROM OXIDIZING +8 MATERIAL *Gas/Vent*
- 154  $\text{U}_3\text{O}_8$  ROTEXED PLANT 8 FURNACE PRODUCT
- 155  $\text{U}_3\text{O}_8$  -8 MESH FROM ROTEXING OF OTHER THAN PLANT 8'S OWN PRODUCTS - LOW FLUORIDE
- 156 MILLED  $\text{UO}_2$
- 157 REJECT  $\text{UO}_3$
- 158 PHOSPHATE ASH
- 159 ROASTED, MILLED AND/OR SCREENED CALCIUM-PRECIPITATED SUMP AND FILTER CAKES
- 160 IMPURE URANYL OR THORIUM NITRATE - SOLID
- 161 URANIUM CARBIDE, UC *Gas/Vent*
- 162 OFFSITE SUMP AND FILTER CAKES AFTER ROASTING, MILLING, AND/OR SCREENING AT FEMP
- 163 ROASTED, MILLED AND/OR SCREENED AMMONIUM-PRECIPITATED SUMP AND FILTER CAKES
- 164 ROASTED, MILLED AND/OR SCREENED MAGNESIUM-PRECIPITATED SUMP AND FILTER CAKES



**ATTACHMENT 3**  
**MATERIAL DESCRIPTION CODES (Page 9 of 15)**

**REFINERY FEEDS (Continued)**

- 165  $U_3O_8$  - NOT REQUIRING RE-OXIDATION
- 166  $UO_2$  (OR  $ThO_2$ ) PELLETS - REFINERY FEED
- 167  $UO_2$  (OR  $ThO_2$ ) POWDER - REFINERY FEED
- 168 CRUSHED FURNACE SALTS AND SLUDGES NON-CHLORINE
- 169 ROASTED FURNACE SALTS AND SLUDGES NON-CHLORINE
- 170 ORE CONCENTRATE - MISCELLANEOUS
- 190  $U_3O_8$  FOR RE-OXIDATION
- 191 RE-OXIDIZED ENRICHED CALCINER  $U_3O_8$  FOR SCREENING AND MILLING
- 192 OXIDE FOR SCREENING AND MILLING
- 196  $U_3O_8$  SUITABLE FOR CASCADES FROM EVAPORATOR - CALCINER
- 197  $U_3O_8$  SUITABLE FOR CASCADES FROM METAL OXIDATION
- 198  $UO_2$  SUITABLE FOR CASCADES
- 199  $UF_4$  SUITABLE FOR CASCADES

**INTERMEDIATE PRODUCTS**

- 200  $UO_3$  PRODUCT
- 201  $UO_3$  REACTOR RECYCLE TAILS
- 202  $UO_2$  OR  $ThO_2$  PRODUCT
- 203  $UF_6$ , URANIUM HEXAFLUORIDE
- 204 PURIFIED URANYL OR THORIUM NITRATE SOLUTION
- 205  $ThO_2$  PRODUCED FROM SOL-GEL PROCESS
- 206 BLENDED  $UF_4$  OR  $ThF_4$  CHARGE
- 207 PURIFIED URANYL OR THORIUM NITRATE SOLID
- 208 ADU POWDER
- 209 URANIUM OR THORIUM TETRACHLORIDE
- 210  $UF_4$  OR  $ThF_4$
- 211  $UF_4$  FROM PILOT PLANT  $UF_6$
- 212  $UF_4$  FROM HANFORD  $UO_3$

**ATTACHMENT 3**  
**MATERIAL DESCRIPTION CODES (Page 10 of 15)**

**INTERMEDIATE PRODUCTS (Continued)**

- 214  $U_3O_8$  FROM RECYCLE  $UO_3$  (ROR PROCESS)
- 215 THORIUM HYDROXIDE, DRY
- 216 CHARGED  $UF_4$  POTS, WIP
- 218 CLEAN PRILL FOR DOUBLE MELTING *Gas/Vent*
- 219 METAL FROM SPILLS FOR DOUBLE MELTING *Gas/Vent*
- 220 CODE 2 DERBIES FOR DOUBLE MELTING OR SHOT CLEANING *Gas/Vent*
- 221 SOLID METAL FOR PICKLING PRIOR TO REMELT DOES NOT REQUIRE BLENDING  
( $<12"$ ) *Gas/Vent*
- 222 SOLID METAL - INCLUDES PHYSICAL BUT NOT CHEMICAL REJECT INGOTS; TO BE  
SAWED OR CRUSHED AND PICKLED PRIOR TO REMELT ( $\geq 12"$ ) *Gas/Vent*
- 223 SOLID METAL TO BE SAWED, SHEARED, OR CRUSHED, BUT NOT PICKLED PRIOR TO  
REMELT *Gas/Vent*
- 224 SOLID METAL, NOT PICKLED, OTHER THAN SPILLS AND TOP CROPS, FOR DOUBLE  
MELT *Gas/Vent*
- 225 SR STANDARD METAL TO BE SAWED AND PICKLED PRIOR TO REMELT *Gas/Vent*
- 227 METAL SAMPLES FOR DOUBLE MELTING *Gas/Vent*
- 228 SOLID METAL TO BE PICKLED *Gas/Vent*
- 229 FIRST GENERATION TOP CROPS FROM PRODUCT INGOTS - FOR PRIMARY INGOT  
REMELT CHARGES *Gas/Vent*
- 230 SAWED SECTIONS, REQUIRING PICKLING, FROM PRIMARY INGOTS CONTAINING  
FIRST GENERATION TOP CROPS *Gas/Vent*
- 231 SAWED SECTIONS, REQUIRING PICKLING, FROM PRIMARY INGOTS CONTAINING NO  
TOP CROP METAL *Gas/Vent*
- 232 PICKLED METAL FOR DOUBLE MELTING - OTHER THAN FIRST GENERATION TOP  
CROPS *Gas/Vent*
- 233 CLASSIFIED SHAPES FOR DOUBLE MELTING *Gas/Vent*
- 234 PHYSICAL REJECT BILLETS TO BE SAWED PRIOR TO REMELT *Gas/Vent*

**ATTACHMENT 3**  
**MATERIAL DESCRIPTION CODES (Page 10 of 15)**

**INTERMEDIATE PRODUCTS (Continued)**

- 235 TUBULAR ELEMENTS TO BE CRUSHED *Gas/Vent*
- 236 EXTRUSION BUTTS TO BE PICKLED *Gas/Vent*
- 237 PARTIALLY DECLAD METAL, OTHER THAN ZIRNLO, FOR DOUBLE MELTING *Gas/Vent*
- 238 SOLID METAL FOR PICKLING AND DOUBLE MELTING, OTHER THAN FIRST  
GENERATION TOP CROPS *Gas/Vent*
- 239 CHEMICAL REJECT SAWED REMELT METAL - TO BE CAUSTIC LEACHED AND PICKLED  
*Gas/Vent*
- 240 DOUBLE MELT INGOTS TO BE SAWED AND PICKLED PRIOR TO REMELT *Gas/Vent*
- 241 DOUBLE MELT INGOTS TO BE SAWED, BUT NOT PICKLED, PRIOR TO REMELT  
*Gas/Vent*
- 242 CHEMICAL REJECT INGOTS (AND OTHER CHEMICAL REJECT MATERIAL) TO BE  
SAWED AND PICKLED, OR TO BE ROLLED, SHEARED AND PICKLED, PRIOR TO REMELT  
*Gas/Vent*
- 243 CHEMICAL REJECT SOLID METAL TO BE SAWED, NOT PICKLED PRIOR TO REMELT  
*Gas/Vent*
- 244 CHEMICAL REJECT DOUBLE MELT INGOTS FROM DOUBLE MELTING TO BE SAWED  
AND PICKLED *Gas/Vent*
- 245 CHEMICAL REJECT DOUBLE MELT SOLID METAL TO BE SAWED, BUT NOT PICKLED,  
PRIOR TO REMELT *Gas/Vent*
- 246 INGOTS FROM OFFSITE TO BE REWORKED *Gas/Vent*
- 250 CO-PACKAGED SOLID URANIUM METAL. FOR MATERIAL TYPE CODES OF INNER  
CONTAINERS SEE OVERPACK/REPACK REPORT FROM SWIFTS OR SEE MC&A
- 251 CHEMICAL REJECT SOLID METAL FOR PICKLING PRIOR TO REMELT *Gas/Vent*
- 252 BRIQUETTES HIGH IN IMPURITIES FOR DOUBLE MELTING *Gas/Vent*
- 253 REJECT RODS
- 254 CODE 4 OR BOTTOM BURNOUT DERBIES FOR DOUBLE MELTING *Gas/Vent*
- 260 TOP CROP FROM PRODUCT 4A FLAT BILLETS (SECOND GENERATION) *Gas/Vent*

**ATTACHMENT 3**  
**MATERIAL DESCRIPTION CODES (Page 11 of 15)**

INTERMEDIATE PRODUCTS (Continued)

- 261 PHYSICAL SCRAP FROM RECYCLE 4A FLAT BILLETS (SECOND GENERATION) *Gas/Vent*
- 262 CHEMICAL SCRAP FROM RECYCLE 4A FLAT BILLETS (SECOND GENERATION)  
*Gas/Vent*
- 263 OFFSITE 4A SCRAP RETURNS (SECOND GENERATION) *Gas/Vent*
- 270 CO-PACKAGED HIGH GRADE URANIUM COMPOUNDS. FOR MATERIAL TYPE CODES  
OF INNER CONTAINERS SEE OVERPACK/REPACK REPORT FROM SWIFTS OR SEE  
MC&A FOR FURTHER INFORMATION.

REMELT FEEDS *Gas/Vent*

- 300 DERBIES, CODE 1 AND CODE 3 *Gas/Vent*
- 302 BRIQUETTES *Gas/Vent*
- 303 CHIPS-CLEANED NON-BRIQUETTABLE-SUITABLE FOR CASTING *Gas/Vent*
- 304 SOLID REMELT METAL - LOW IMPURITIES - DOES NOT REQUIRE BLENDING OR  
PICKLING - NOT FROM DOUBLE MELTS *Gas/Vent*
- 305 PICKLED ARF REMELT METAL *Gas/Vent*
- 306 EXPERIMENTAL SHAPES - INCLUDING CLASSIFIED SHAPES NOT TO BE CRUSHED  
*Gas/Vent*
- 307 ZIRNLO PRODUCT *Gas/Vent*
- 310 PICKLED CROPS FROM SR METAL *Gas/Vent*
- 311 SR STANDARD SOLID METAL - FOR REMELT *Gas/Vent*
- 313 PICKLED CROPS FROM HW METAL *Gas/Vent*
- 314 PICKLED PRIMARY INGOT SECTIONS CONTAINING FIRST GENERATION TOP CROP  
*Gas/Vent*
- 315 PICKLED PRIMARY INGOT SECTIONS CONTAINING NO TOP CROP METAL *Gas/Vent*
- 316 PICKLED TI ALLOY REMELT SCRAP - DOES NOT REQUIRE BLENDING (NOT DERIVED  
FROM PRIMARY INGOTS) *Gas/Vent*
- 322 CHEMICAL REJECT SOLID REMELT METAL - DOES NOT REQUIRE PICKLING *Gas/Vent*
- 323 REJECT ELEMENTS - OUTER *Gas/Vent*

**ATTACHMENT 3**  
**MATERIAL DESCRIPTION CODES (Page 12 of 15)**

REMELT FEEDS (Continued)

- 324 REJECT ELEMENTS - INNER *Gas/Vent*
- 325 REJECT CORES *Gas/Vent*
- 326 REJECT BILLETS, INCLUDING SAWED BILLET SECTIONS *Gas/Vent*
- 327 PICKLED REJECT BILLETS OR BILLET SECTIONS *Gas/Vent*
- 330 PRIMARY INGOT SECTIONS, NOT PICKLED, CONTAINING FIRST GENERATION TOP CROPS *Gas/Vent*
- 331 PRIMARY INGOT SECTIONS, NOT PICKLED, CONTAINING NO TOP CROP METAL *Gas/Vent*
- 333 PICKLED CHEMICAL REJECT CROPS *Gas/Vent*
- 334 PICKLED CHEMICAL REJECT CROPS FROM DOUBLE MELT INGOTS *Gas/Vent*
- 335 CRUSHED TUBULAR ELEMENTS *Gas/Vent*
- 336 PICKLED EXTRUSION BUTTS *Gas/Vent*
- 337 DECLAD METAL, OTHER THAN ZIRNLO *Gas/Vent*
- 340 SECTIONS FROM CHEMICAL REJECT PRIMARY INGOTS, NOT PICKLED *Gas/Vent*

CASTING PRODUCTS

- 400 STANDARD INGOTS - HANFORD WORKS (HW) *Gas/Vent*
- 401 SPECIAL SOLID INGOTS OR SLABS *Gas/Vent*
- 402 SPECIAL HOLLOW INGOTS *Gas/Vent*
- 403 SPECIAL CASTINGS, INCLUDING STATIC AND CENTRIFUGAL *Gas/Vent*
- 404 N REACTOR INGOTS - RAW *Gas/Vent*
- 405 N REACTOR INGOTS - DIRECT CASTINGS FOR FINISHED BILLET MACHINING *Gas/Vent*
- 406 MARK 31 CASTINGS - RAW - INNER *Gas/Vent*
- 407 MARK 31 CASTINGS - RAW - OUTER *Gas/Vent*
- 408 MARK 31 CASTINGS - FINISHED - INNER *Gas/Vent*
- 409 MARK 31 CASTINGS - FINISHED - OUTER *Gas/Vent*
- 410 N REACTOR INGOTS - FINISHED *Gas/Vent*

**ATTACHMENT 3**  
**MATERIAL DESCRIPTION CODES (Page 13 of 15)**

**CASTING PRODUCTS (Continued)**

- 411 URANIUM SHOT *Gas/Vent*
- 412 MARK 15 CASTINGS - RAW - INNER *Gas/Vent*
- 413 MARK 15 CASTINGS - RAW - OUTER *Gas/Vent*
- 414 MARK 15 CASTINGS - FINISHED - INNER *Gas/Vent*
- 415 MARK 15 CASTINGS - FINISHED - OUTER *Gas/Vent*
- 416 MARK 25 CASTINGS - RAW - INNER *Gas/Vent*
- 417 MARK 25 CASTINGS - RAW - OUTER *Gas/Vent*
- 418 MARK 25 CASTINGS - FINISHED - INNER *Gas/Vent*
- 419 MARK 25 CASTINGS - FINISHED - OUTER *Gas/Vent*

**ROLLING AND EXTRUSION PRODUCTS** *Gas/Vent*

- 450 BILLETS, ROLLING MILL *Gas/Vent*
- 452 MARK 15 EXTRUDED TUBES - OUTER *Gas/Vent*
- 453 N REACTOR EXTRUDED TUBES *Gas/Vent*
- 454 N REACTOR RAW BILLETS - SAWED EXTRUSIONS *Gas/Vent*
- 455 MARK 31 EXTRUDED TUBES - INNER *Gas/Vent*
- 456 MARK 31 EXTRUDED TUBES - OUTER *Gas/Vent*
- 457 SPECIAL RODS AND/OR TUBES *Gas/Vent*
- 458 HW EXTRUDED TUBES - ROD-IN-TUBE *Gas/Vent*

- 461 MARK 25 EXTRUDED TUBES - INNER *Gas/Vent*
- 462 MARK 25 EXTRUDED TUBES - OUTER *Gas/Vent*

**MACHINING PRODUCTS** *Gas/Vent*

- 500 MARK 31 ELEMENTS - INNER *Gas/Vent*
- 501 MARK 31 ELEMENTS - OUTER *Gas/Vent*
- 502 HANFORD INGOT CORES *Gas/Vent*
- 503 N REACTOR FINISHED BILLETS FROM EXTRUSIONS *Gas/Vent*

**ATTACHMENT 3**  
**MATERIAL DESCRIPTION CODES (Page 14 of 15)**

**MACHINING PRODUCTS (Continued)**

- 504 CORES OTHER THAN 502 *Gas/Vent*
- 505 N REACTOR FINISHED BILLETS FROM DIRECT CASTINGS *Gas/Vent*
- 506 SPECIAL MACHINED SHAPES *Gas/Vent*
- 507 MARK 15 ELEMENTS - INNER *Gas/Vent*
- 508 MARK 15 ELEMENTS - OUTER *Gas/Vent*
- 509 MARK 25 ELEMENTS - INNER *Gas/Vent*
- 510 MARK 25 ELEMENTS - OUTER *Gas/Vent*

**ENVIRONMENTAL PROJECTS**

- 600 CLEAN OR DECONTAMINATED EQUIPMENT
- 601 CLEAN SOIL - TREATED
- 602 CLEAN ROCKS - TREATED
- 603 GLASS FROM VITRIFICATION, MAWS
- 604 CONSTRUCTION - RUBBLE FROM NON-CONTAMINATED AREA
- 605 RESIDUES IN CONCRETE
- 606 GLASS MONOLITHS FROM VITRIFICATION
- 607 GLASS GEMS FROM VITRIFICATION PILOT PLANT
- 608 AWWT ION EXCHANGE RESIN
- 609 AWWT CONTAMINATED ACTIVATED CARBON
- 610 FLYASH
- 613 GENERAL CHEMICALS AND SOLVENT INCLUDING LAB-PACKS(SEE LIST OF SOLVENT  
AND CHEMICAL NAMES ON PAGE 11)
- 614 UNIVERSAL DEVELOPER
- 615 FIXER/DEVELOPER
- 616 CLEAR DISPERSANT
- 617 FLUORESCENT BULBS
- 618 INCANDESCENT BULBS
- 619 SILVER SOLUTIONS

**ATTACHMENT 3**  
**MATERIAL DESCRIPTION CODES (Page 15 of 15)**

**ENVIRONMENTAL PROJECTS (Continued)**

- 625 X-RAY LABORATORY WASTE
- 626 NICKEL/CADMIUM BATTERIES
- 627 ALKALINE BATTERIES
- 647 RCRA SAMPLE RETURNS
- 649 LEAD PAINT CHIPS
- 650 GENERAL SAMPLE DISPOSITION
- 651 AQUEOUS LIQUID SAMPLES
- 652 DEBRIS SAMPLES
- 653 TRASH SAMPLES
- 654 GLASS SAMPLES
- 655 ASBESTOS SAMPLES
- 656 ORGANIC LIQUID SAMPLES
- 657 WET RESIDUE SAMPLES
- 658 DRY RESIDUE SAMPLES
- 659 PCB SAMPLES
- 660 SPECIAL CASE SAMPLES
- 661 HAZARDOUS SOIL SAMPLES
- 662 NON-HAZARDOUS SOIL SAMPLES
- 670 T-HOPPERS WITH SCRAP  $UO_3$  MATERIAL
- 671 DIRTY CLOTHING TO OFFSITE LAUNDRY
- 672 ASPHALT AND PAVING MATERIALS
- 673 MIXED USE T-HOPPERS

**MATERIALS FROM WASTE PITS**

- 700 BLENDED AND/OR DRIED RCRA HAZARDOUS MATERIALS FROM WASTE PITS



**ATTACHMENT 4**  
**SEQUENCE NUMBER MONTH/YEAR CROSS-REFERENCE (Page 1 of 2)**

<u>MONTH</u>	<u>1962</u>	<u>1963</u>	<u>1964</u>	<u>1965</u>	<u>1966</u>	<u>1967</u>	<u>1968</u>	<u>1969</u>	<u>1970</u>	<u>1971</u>
JAN	1	13	25	37	49	61	73	85	97	109
FEB	2	14	26	38	50	62	74	86	98	110
MAR	3	15	27	39	51	63	75	87	99	111
APR	4	16	28	40	52	64	76	88	100	112
MAY	5	17	29	41	53	65	77	89	101	113
JUN	6	18	30	42	54	66	78	90	102	114
JUL	7	19	31	43	55	67	79	91	103	115
AUG	8	20	32	44	56	68	80	92	104	116
SEP	9	21	33	45	57	69	81	93	105	117
OCT	10	22	34	46	58	70	82	94	106	118
NOV	11	23	35	47	59	71	83	95	107	119
DEC	12	24	36	48	60	72	84	96	108	120

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<u>MONTH</u>	<u>1972</u>	<u>1973</u>	<u>1974</u>	<u>1975</u>	<u>1976</u>	<u>1977</u>	<u>1978</u>	<u>1979</u>	<u>1980</u>	<u>1981</u>
JAN	121	133	145	157	169	181	193	205	217	229
FEB	122	134	146	158	170	182	194	206	218	230
MAR	123	135	147	159	171	183	195	207	219	231
APR	124	136	148	160	172	184	196	208	220	232
MAY	125	137	149	161	173	185	197	209	221	233
JUN	126	138	150	162	174	186	198	210	222	234
JUL	127	139	151	163	175	187	199	211	223	235
AUG	128	140	152	164	176	188	200	212	224	236
SEP	129	141	153	165	177	189	201	213	225	237
OCT	130	142	154	166	178	190	202	214	226	238
NOV	131	143	155	167	179	191	203	215	227	239
DEC	132	144	156	168	180	192	204	216	228	240

**ATTACHMENT 4**  
**SEQUENCE NUMBER MONTH/YEAR CROSS-REFERENCE (Page 2 of 2)**

<u>MONTH</u>	<u>1982</u>	<u>1983</u>	<u>1984</u>	<u>1985</u>	<u>1986</u>	<u>1987</u>	<u>1988</u>	<u>1989</u>	<u>1990</u>	<u>1991</u>
JAN	241	253	265	277	289	301	313	325	337	349
FEB	242	254	266	278	290	302	314	326	338	350
MAR	243	255	267	279	291	303	315	327	339	351
APR	244	256	268	280	292	304	316	328	340	352
MAY	245	257	269	281	293	305	317	329	341	353
JUN	246	258	270	282	294	306	318	330	342	354
JUL	247	259	271	283	295	307	319	331	343	355
AUG	248	260	272	284	296	308	320	332	344	356
SEP	249	261	273	285	297	309	321	333	345	357
OCT	250	262	274	286	298	310	322	334	346	358
NOV	251	263	275	287	299	311	323	335	347	359
DEC	252	264	276	288	300	312	324	336	348	360

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<u>MONTH</u>	<u>1992</u>	<u>1993</u>	<u>1994</u>	<u>1995</u>	<u>1996</u>	<u>1997</u>	<u>1998</u>	<u>1999</u>	<u>2000</u>	<u>2001</u>
JAN	361	373	385	397	409	421	433	445	457	469
FEB	362	374	386	398	410	422	434	446	458	470
MAR	363	375	387	399	411	423	435	447	459	471
APR	364	376	388	400	412	424	436	448	460	472
MAY	365	377	389	401	413	425	437	449	461	473
JUN	366	378	390	402	414	426	438	450	462	474
JUL	367	379	391	403	415	427	439	451	463	475
AUG	368	380	392	404	416	428	440	452	464	476
SEP	369	381	393	405	417	429	441	453	465	477
OCT	370	382	394	406	418	430	442	454	466	478
NOV	371	383	395	407	419	431	443	455	467	479
DEC	372	384	396	408	420	432	444	456	468	480